Cisco 700 Series — ISDN Access Routers

Product Overview

The Internet is a powerful tool for small businesses and home-office environments. Today, even a few users can leverage the World Wide Web to do the work of many buying, selling, communicating, finding new customers, linking to suppliers, and keeping close tabs on competitors from anywhere in the world.

But for small and home offices, delivering fast Internet access to multiple desktops used to be a sizable challenge. Today, Cisco 700 series Internet access devices provide an ideal, affordable solution that allows multiple PCs to easily share one Integrated Services Digital Network (ISDN) line for simultaneous access to the Internet.

Recommended for up to five users, the Cisco 700 series is designed for small offices and home-based businesses that need shared and cost-effective access to the Internet. And since these offices typically do not have networking expertise, the Cisco 700 series is also designed to be extremely easy to install.

Key Features and Benefits

Cisco 700 Key Features and Benefits

- Internet Access for Multiple Users over One ISDN Line

  The Cisco 700 series allows multiple PCs to access the Internet simultaneously, without the need to share a single PC with an Internet connection or rely on server-based hardware and software. A single Cisco 700 series can make everyone in the office more productive.

- Affordable Internet Connections for Small/Home Offices

  With the Cisco 700 series, there's no need to install a separate ISDN card in every PC to provide Internet access to new users and no need to have multiple ISDN lines or multiple Internet access accounts. The Cisco 700 series includes everything you need for fast access, without need for costly added hardware or software in a dedicated PC or central server. And when you want to give Internet access to new users, just plug them into your hub or the Ethernet port on the Cisco 700 series no additional hardware or configuration is required.

- High-Speed Internet Connections

  Unlike ISDN cards, the Cisco 700 series does not steal performance from a PCs main processor or add work for your central server. Fast call set up with automatic dialup provides quick, automated connections to the Internet and online services. And Cisco 700 series Internet access devices include throughput-boosting data compression, so users can browse the Web quickly and receive faster downloads.

- Integrated CAPI Support for Optimal Performance for European Markets

  The Cisco 700 series is designed to take full advantage of popular European ISDN services. Integrated support for common application programming interface (CAPI) applications provides access to services such as faxing and online banking and a range of leading Internet service providers.

  Cisco 700 series Internet access devices are available with one-user or five-user RVS-COM Lite licenses, for access to all RVS-COM applications and CAPI applications. And since the CAPI 2.0 driver is built into the Cisco 700 series, there is no need to purchase separate software for your server.

  CAPI is an application programming interface standard used to access ISDN equipment connected to basic rate interfaces (BRIs) and primary rate interfaces (PRIs). Using a Cisco 700 series with RVS-COM Lite software provides a truly shared network environment and other benefits including: Soft fax (for analog and digital lines) for use with software such as AVMs Fritz!32, Symantec WinFax Pro, and RVS-COM Lite 1.6: Soft modem for e-mail and Web access to Internet service providers such as T-Online and CompuServe File and Euro-File Transfer Electronic banking and shopping with German T-Online Third-party CAPI-compliant applications. For further details on the CAPI standard, visit www.capi.org.

- 1-2-3 Connect - Few small offices have a dedicated networking expert, so Internet solutions must be easy to install and use. Cisco Fast Step™ Release 1.3 software, a Windows 95, 98, and NT 4.0-based tool, automates the process of configuring the Cisco 700 series router and connecting to the Internet and/or remote corporate network. With Cisco Fast Step software, users are up and running in three easy steps-no networking experience or router configuration expertise is required, making it as easy to use as a terminal adapter (ISDN card).
  - — Connect the color-coded cables & insert Cisco Fast Step Release 1.3 CD-ROM
  - — Select Your Service Provider
  - — Enter your Internet account information (service provider, username, and password) or corporate network login information.

Product Details

Cisco 700 series Internet access devices are available in several configurations. For a simple connection of your PC to an ISDN service, the Cisco 761M provides a single WAN port and a single Ethernet port. The Cisco 775M provides a single WAN port, four Ethernet ports (integrated hub), and two analog telephone interfaces that allow standard telephones, fax machines, and modems to share the ISDN line. These analog telephone interfaces eliminate the need for multiple telephone lines and expensive ISDN telephones. They also support supplementary telephone services such as call waiting, call hold, call transfer, call-forwarding (Sweden and Finland), and three-way conferencing.

Hardware

Figure 18-46: Cisco 761M Rear View

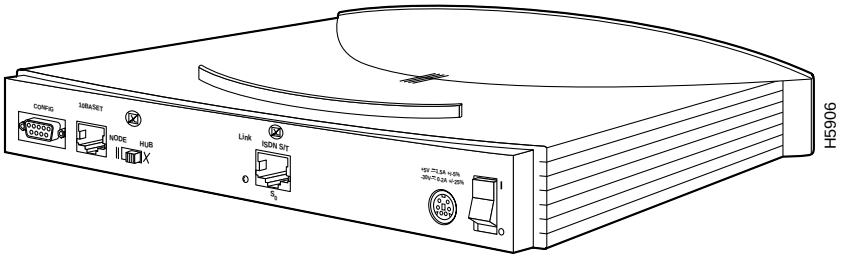
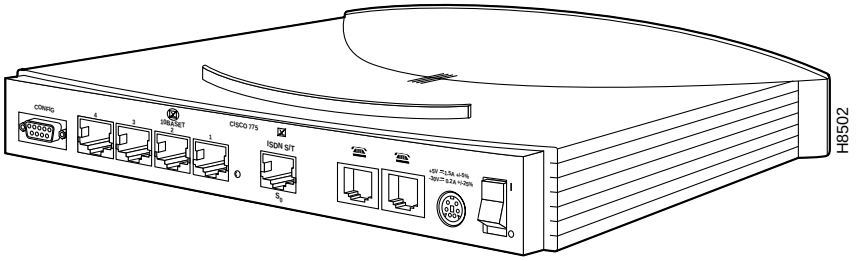


Figure 18-47: Cisco 775M Rear View



Specifications

Hardware

Table 18-128: Technical Specifications for Cisco 700 Series

Description	Cisco 761	Cisco 775	Cisco 776
ISDN Interface	S/T	S/T	S/T and U

Description		Cisco 761	Cisco 775	Cisco 776
Market		Worldwide	Worldwide	North America
Number of Users		Up to 30	Up to 30	Up to 30
Processor	Model	386	386	386
	Speed	25 MHz	25 MHz	25 MHz
Memory	Standard DRAM	1.5 MB	1.5 MB	1.5 MB
	NVRAM	16 KB	16 KB	16 KB
	Flash	1.0 MB	1.0 MB	1.0 MB
Telephone	Analog Ports	n/a	RJ-11	n/a
	REN	n/a	5	n/a
	Caller ID	n/a	North America Only	n/a
Ethernet		10BaseT	4-port 10BaseT	10BaseT
Console	Connection	DB-9F	DB-9F	DB-9F
Power Information	Call connect/disconnect Switch	No	Yes	Yes
	Ring power	No	4.7 REN	4.7 REN
	Power supply	AC external switching	AC external switching	AC external switching

Table 18-129: Power Requirements for Cisco 700 Series

Description		Specification
Power supply	External	External table-top power supply
Voltage and frequency	U.S.	110 VAC, 60 Hz
	U.K. and Singapore	240 VAC, 50 Hz
	Europe	220 VAC, 50 Hz
	Japan	100 VAC, 50 to 60 Hz

Table 18-130: Physical and Environmental Specifications for Cisco 700 Series

Description	Specification
Operating Temperature	32 to 120˚F (0 to 50˚C)
Storage Temperature	–30 to 160˚F (–35 to 70˚C)
Humidity, noncondensing	20 to 95%

Software

Cisco 700 Series Software

Each Cisco 700 series model comes with software feature set that supports:

- IP/IPX routing for up to 1500 PCs (recommended for up to 5 users)
- STAC compression for faster transmission
- X.25 over ISDN (D) for point of sale (POS) applications
- Bandwidth on demand (BOD) B channel aggregation
- Always on/dynamic ISDN (AO/DI)
- Built-in Dynamic Host Control Protocol (DHCP) server
- Configuration through Trivial File Transfer Protocol (TFTP), remote downloads, and autoconfiguration

- Works with 3rd party firewall clients
- PAT (Port Address Translation) and caller call back for security
- Call bumping with sometimes/always/never priority to date
- Select ISDN supplementary services

To use a CAPI-compliant application with the Cisco 700 series Internet access device, all clients must have RVS-COM Lite software installed and properly configured on their PCs.

The CAPI feature is bundled with the Cisco 700 series and is available as a software upgrade.

Ordering Information

Product and Part Numbers

Part Numbers for the Cisco 700 Series

Part Description	Part Number
Cisco 760 Series Products	
ISDN Router	CISCO761M
ISDN Router, 1-user CAPI	CISCO761M-1CAPI
Cisco 770 Series Products	
ISDN Router w/ 4-port Hub, 2 POTS (Euro, Central Am)	CISCO775M
ISDN Router w/ 4-port Hub, 2 POTS (Canada, Netherlands)	CISCO775M-G1
ISDN Router w/ 4-port Hub, 2 POTS (Europe)	CISCO775M-G2
ISDN Router w/ 4-port Hub, 2 POTS (Euro), 1-user CAPI	CISCO775M-1CAPI
ISDN Router w/ NT-1, 2 POTS, w/ 4-port Hub (U.S.)	CISCO776M
ISDN Router w/ NT-1, 2 POTS, w/ 4-port Hub (CA.)	CISCO776M-G1
Cisco 700 Fast Step	
Fast Step for Cisco 700 Series v1.3 (German enhancements)	FS-700-1.3=
Cisco 760/770 Series Software Options	
IR 760-770 - 30 users, IP routing (US)	SF760-IR-US-4.3
IR 760-770 - 30 users, IP routing (JP)	SF760-IR-IN-4.3
IR 760-770 - 30 users, IP routing (US)	SW760-IR-US-4.3=
IR 760-770 - 30 users, IP routing (CE - NET/3)	SW760-IR-CE-4.3=
IR 760-770 - 30 users, IP routing (Australia)	SW760-IR-TP-4.3=
IR 760-770 - 30 users, IP routing (JP)	SW760-IR-IN-4.3=
IR 760-770 - 30 users, IP routing (NET/3 Malaysia)	SW760-IR-MY-4.3=
IR 760-770 - 30 users, IP routing (1TR6 - DE)	SW760-IR-1T-4.3=

Part Description	Part Number
IR 760-770 - 30 users, IP routing (X.25/ B& D for US)	SW760-IRX-US-4.3=
IR 760-770 - 30 users, IP routing (X.25/ B& D for CE-NET/3)	SW760-IRX-CE-4.3=
IR 760-770 - 30 users, IP routing (X.25/ B& D for Australia)	SW760-IRX-TP-4.3=
IR 760-770 - 30 users, IP routing (X.25/ B& D for Malaysia)	SW760-IRX-MY-4.3=
RO 1500 users, data comp, IP/IPX (X.25/B & D for CE-NET/3)	SW760-ROX-CE-4.3=
Cisco 700 1-user Remote CAPI Software	CD700-1CAPI-4.4=
Cisco700 5-user Remote CAPI Software	CD700-5CAPI-4.4=
Cisco 700 Internet Ready IP, X.25 (Europe)	SF700-IRX-CE-4.4
Cisco 700 Internet Ready IP, X.25 (US)	SF700-IRX-US-4.4
Cisco 700 Software Upgrades for Routers with IP Software	
Cisco 700 1-user Remote CAPI Software	CD700-1CAPI-4.4=
Cisco 760/770 Series Options and Accessories	
Cisco 760 Console Cable	CAB-760-CON=
Cisco760-770 Family AC Power Supply - Spare	PWR760-770=
Cisco 700 Series 0.5 MB DRAM Memory	MEM760-512D=